

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529280

Luminaire Tested: **GALN-SA4B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15003 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



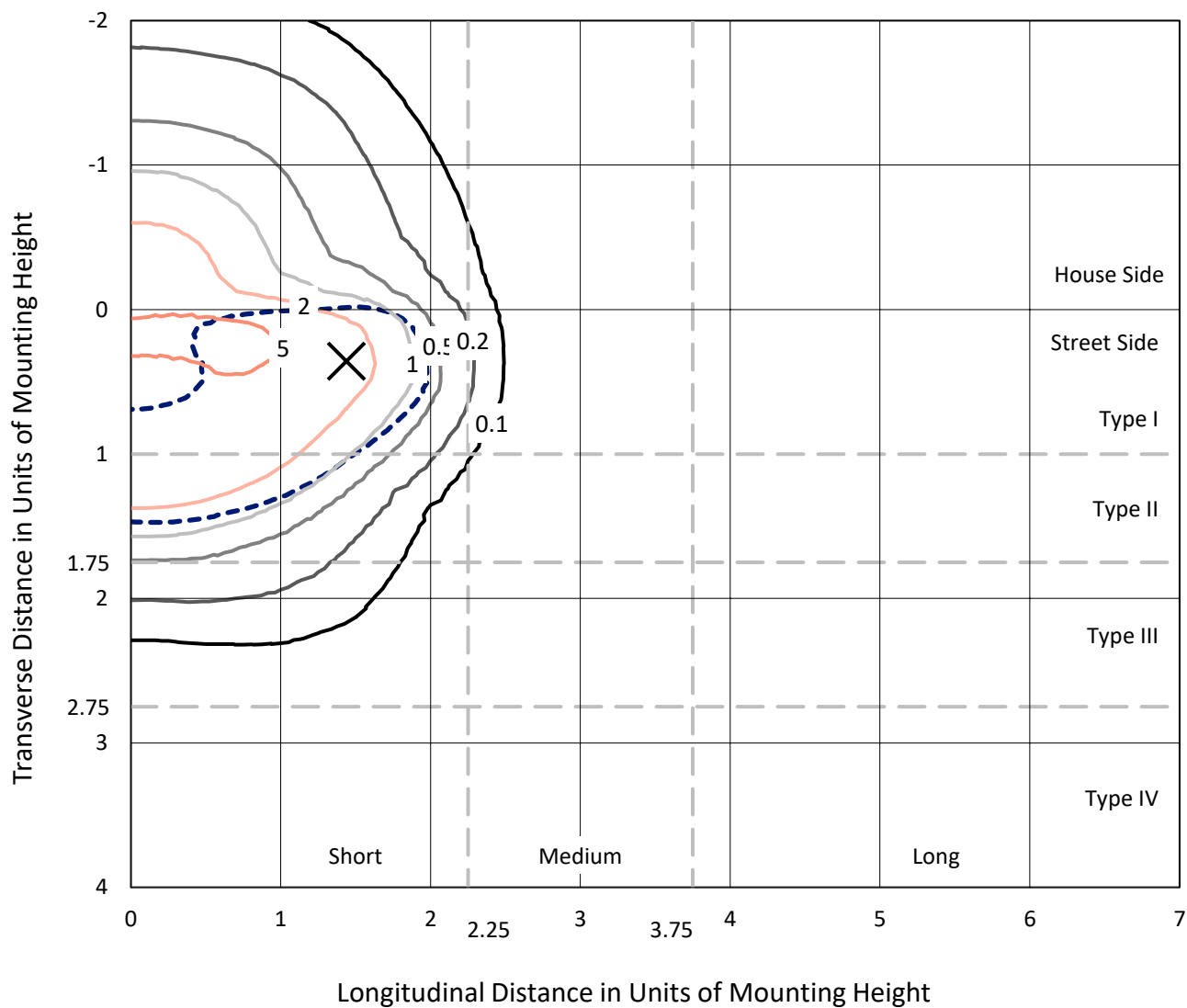
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

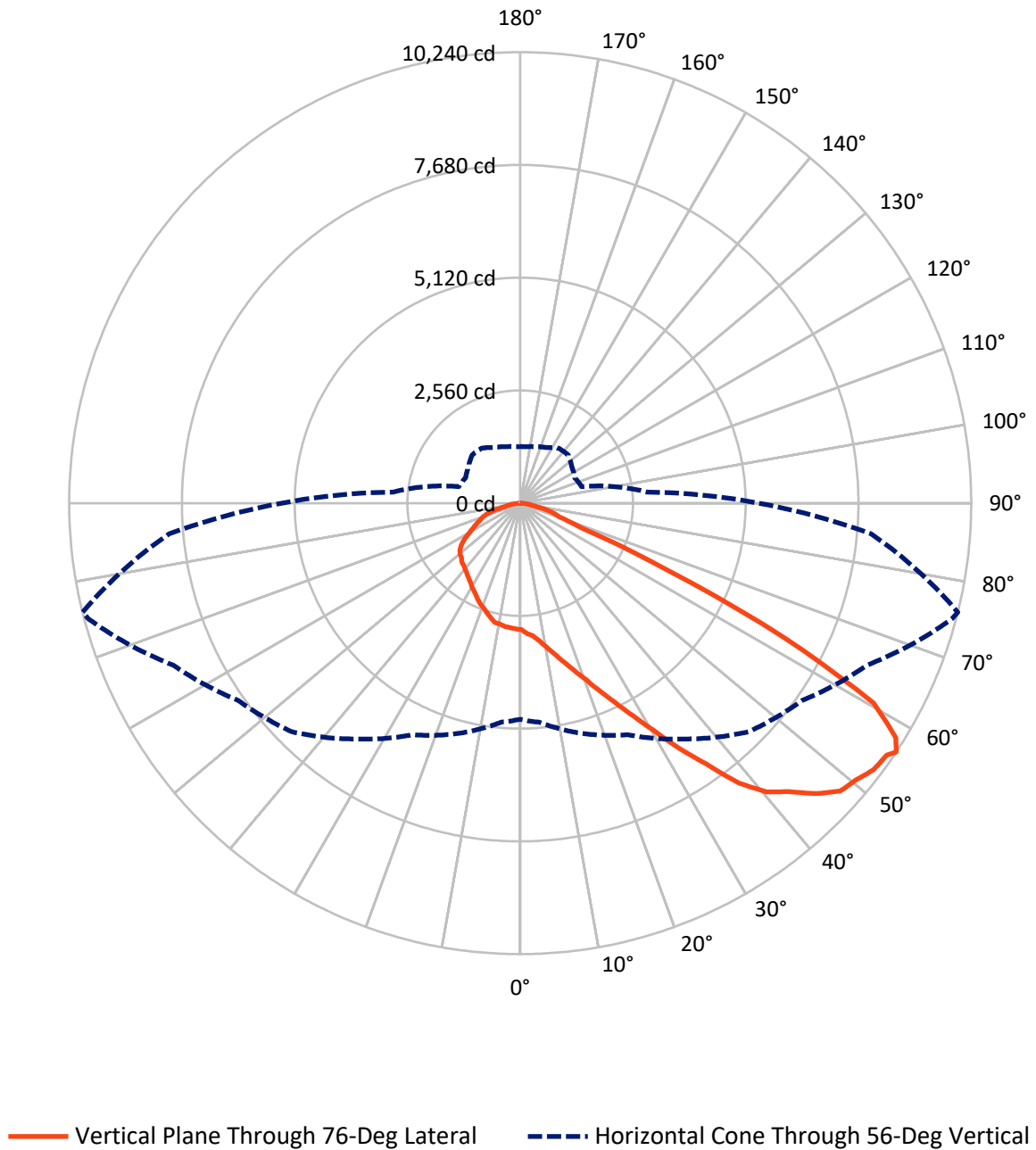
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4033.9	0.0	4033.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10969.1	0.0	10969.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	15003.0	0.0	15003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	1.9
10°-20°	894.3	6.0
20°-30°	1564.0	10.4
30°-40°	2448.7	16.3
40°-50°	3562.2	23.7
50°-60°	3915.1	26.1
60°-70°	1747.5	11.6
70°-80°	504.7	3.4
80°-90°	81.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15003.0	100.0
0°-180°	15003.0	100.0

Coefficient of Utilization



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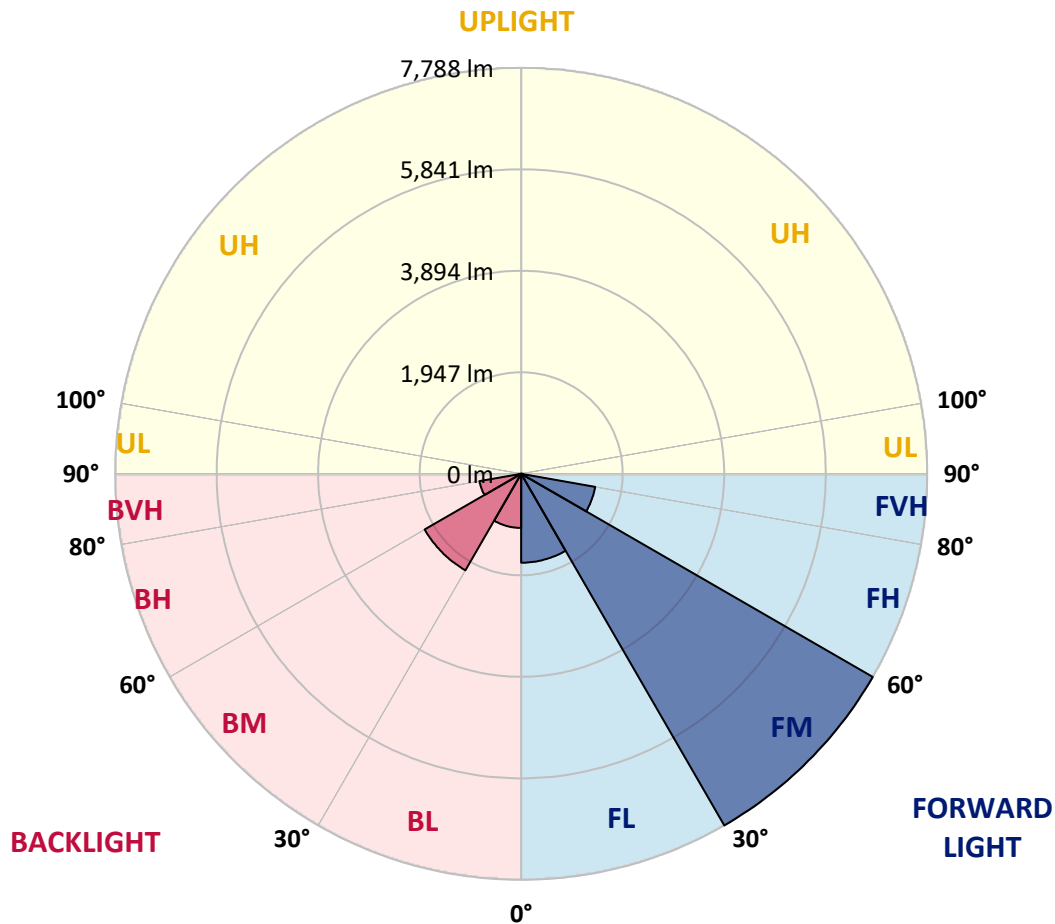
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1704.9	11.4			
FM	(30°-60°)	7788.3	51.9			
FH	(60°-80°)	1440.6	9.6			G1/1800
FVH	(80°-90°)	35.2	0.2			G1/100
BL	(0°-30°)	1038.0	6.9	B3/2500		
BM	(30°-60°)	2137.6	14.2	B2/2500		
BH	(60°-80°)	811.6	5.4	B2/1000		G2/1000
BVH	(80°-90°)	46.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6
2.5°	3162.4	3111.8	3107.9	3094.3	3102.1	3067.1	3030.1	2981.5	2930.9	2962.0	2888.1
5°	3384.1	3316.0	3343.2	3296.6	3302.4	3255.7	3179.9	3123.5	3061.2	3024.3	2971.8
7.5°	3461.9	3467.7	3487.2	3479.4	3440.5	3440.5	3389.9	3290.7	3181.8	3160.4	3072.9
10°	3566.9	3568.8	3547.4	3553.3	3607.7	3582.5	3537.7	3494.9	3354.9	3329.6	3174.0
12.5°	3603.8	3568.8	3603.8	3635.0	3699.1	3734.2	3724.4	3693.3	3543.6	3526.1	3298.5
15°	3609.7	3588.3	3617.5	3687.5	3743.9	3891.7	3965.6	3944.2	3745.8	3747.8	3438.5
17.5°	3582.5	3611.6	3623.3	3683.6	3813.9	3952.0	4165.9	4195.1	4031.7	4006.4	3615.5
20°	3619.4	3598.0	3613.6	3668.0	3841.1	4057.0	4337.1	4529.6	4300.1	4282.6	3798.3
22.5°	3761.4	3732.2	3728.3	3763.3	3887.8	4111.5	4517.9	4864.1	4626.9	4636.6	4025.9
25°	3872.2	3887.8	3874.2	3872.2	3950.0	4193.1	4757.2	5262.8	5070.3	5013.9	4294.3
27.5°	4062.8	4099.8	4072.6	4109.5	4092.0	4315.7	4928.3	5704.3	5548.7	5472.9	4537.4
30°	4327.3	4346.8	4321.5	4321.5	4269.0	4486.8	5083.9	6165.2	6101.1	5998.0	4823.3
32.5°	4675.5	4704.6	4654.1	4624.9	4617.1	4741.6	5364.0	6620.3	6729.3	6641.7	5202.5
35°	5136.4	5118.9	5058.6	5031.4	4926.4	5132.5	5780.2	7143.5	7429.4	7273.8	5661.5
37.5°	5542.9	5515.7	5511.8	5360.1	5385.4	5554.6	6134.1	7540.3	8108.2	8063.4	6145.8
40°	5922.1	5947.4	5988.3	5902.7	5863.8	6050.5	6546.4	7843.7	8635.2	8617.7	6519.2
42.5°	6328.6	6305.3	6377.2	6305.3	6246.9	6511.4	6993.8	8053.7	9098.1	8954.2	6910.1
45°	6917.9	6844.0	6869.3	6875.1	6832.3	6929.6	7178.5	8205.4	9422.9	9407.3	7196.0
47.5°	7410.0	7411.9	7369.1	7336.1	7205.8	7303.0	7384.7	8300.7	9796.3	9771.0	7306.9
50°	7592.8	7567.5	7692.0	7763.9	7771.7	7573.3	7546.1	8353.2	9992.8	9881.9	7417.7
52.5°	6935.4	6958.8	7155.2	7583.1	7830.1	7851.4	7734.8	8462.1	10072.5	10049.2	7507.2
55°	5581.8	5694.6	6017.4	6511.4	7096.8	7740.6	7939.0	8574.9	10115.3	10095.8	7904.0
56°	4906.9	4994.4	5414.5	5801.6	6536.7	7338.0	7810.6	8695.5	10148.3	10239.8	7997.3
57.5°	3950.0	4051.2	4352.6	4792.2	5659.6	6571.7	7456.6	8547.7	10020.0	10055.0	8065.4
60°	2470.0	2479.7	2841.5	3131.2	3741.9	4632.7	5690.7	7437.2	9273.2	9222.6	7244.6
62.5°	1620.1	1622.0	1950.7	2188.0	2466.1	2670.3	3349.1	4932.2	6842.1	6752.6	5157.8
65°	1137.8	1163.0	1417.8	1734.8	1847.6	1740.7	1719.3	2600.3	3821.7	3693.3	2771.4
67.5°	832.4	834.4	1060.0	1400.3	1563.7	1324.5	1075.5	1270.0	1513.1	1509.2	1283.6
70°	550.4	573.7	746.8	1046.3	1233.0	1063.8	879.1	908.3	962.7	962.7	954.9
72.5°	320.9	342.3	457.0	663.2	692.4	665.1	696.3	777.9	813.0	811.0	801.3
75°	182.8	192.5	217.8	276.2	344.2	406.5	511.5	589.3	624.3	645.7	620.4
77.5°	107.0	112.8	128.4	157.5	178.9	219.8	278.1	332.6	379.3	373.4	377.3
80°	56.4	56.4	72.0	93.4	124.5	155.6	184.8	215.9	241.2	247.0	252.8
82.5°	33.1	35.0	46.7	68.1	89.5	110.9	142.0	163.4	186.7	188.7	192.5
85°	17.5	19.4	29.2	44.7	60.3	68.1	70.0	66.1	72.0	68.1	77.8
87.5°	5.8	5.8	9.7	7.8	7.8	9.7	11.7	11.7	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6
2.5°	2886.2	2886.2	2853.1	2790.9	2781.2	2755.9	2732.5	2730.6	2713.1	2697.5	2689.8
5°	2940.6	2880.4	2831.7	2775.3	2709.2	2678.1	2643.1	2604.2	2588.6	2604.2	2602.2
7.5°	3002.9	2952.3	2806.5	2701.4	2625.6	2594.5	2555.6	2514.7	2518.6	2518.6	2491.4
10°	3063.2	2995.1	2761.7	2627.5	2516.7	2493.3	2471.9	2487.5	2506.9	2510.8	2493.3
12.5°	3164.3	3010.7	2740.3	2553.6	2483.6	2433.0	2446.6	2489.4	2530.3	2518.6	2532.2
15°	3240.2	3024.3	2643.1	2477.8	2390.2	2413.6	2462.2	2491.4	2559.5	2551.7	2565.3
17.5°	3314.1	3032.1	2547.8	2376.6	2339.7	2403.9	2440.8	2524.4	2545.8	2592.5	2610.0
20°	3465.8	3047.6	2450.5	2314.4	2302.7	2376.6	2440.8	2479.7	2526.4	2567.2	2567.2
22.5°	3543.6	3039.8	2386.4	2232.7	2269.7	2316.3	2374.7	2440.8	2440.8	2479.7	2481.7
25°	3640.8	3008.7	2285.2	2193.8	2221.0	2265.8	2331.9	2308.6	2333.8	2333.8	2365.0
27.5°	3751.7	2942.6	2197.7	2123.8	2178.3	2226.9	2236.6	2221.0	2191.9	2188.0	2176.3
30°	3841.1	2860.9	2133.5	2100.5	2145.2	2172.4	2141.3	2108.2	2057.7	2053.8	2026.6
32.5°	3963.6	2759.8	2053.8	2042.1	2092.7	2094.6	2084.9	2034.3	1960.4	1929.3	1898.2
35°	4169.8	2701.4	1993.5	2011.0	2026.6	2020.7	2003.2	1948.8	1874.9	1861.2	1849.6
37.5°	4321.5	2658.6	1931.3	1952.7	1966.3	1974.0	1921.5	1861.2	1863.2	1836.0	1828.2
40°	4492.7	2631.4	1880.7	1890.4	1892.4	1917.6	1853.5	1824.3	1837.9	1820.4	1832.1
42.5°	4712.4	2639.2	1828.2	1820.4	1857.4	1847.6	1816.5	1777.6	1785.4	1732.9	1740.7
45°	4829.1	2691.7	1797.1	1762.1	1802.9	1801.0	1760.1	1723.2	1676.5	1575.3	1579.2
47.5°	4906.9	2705.3	1723.2	1699.8	1742.6	1767.9	1721.2	1635.6	1569.5	1497.6	1480.0
50°	4986.7	2730.6	1688.1	1639.5	1657.0	1717.3	1659.0	1577.3	1513.1	1448.9	1458.7
52.5°	5056.7	2779.2	1620.1	1548.1	1579.2	1645.4	1614.2	1515.1	1445.0	1392.5	1377.0
55°	5367.8	2888.1	1505.3	1412.0	1485.9	1569.5	1552.0	1431.4	1355.6	1328.3	1324.5
56°	5416.5	2892.0	1445.0	1365.3	1433.4	1544.2	1522.8	1394.5	1326.4	1283.6	1285.6
57.5°	5424.2	2845.3	1359.5	1322.5	1380.9	1507.3	1480.0	1365.3	1271.9	1233.0	1221.4
60°	4772.7	2221.0	1252.5	1229.2	1297.2	1394.5	1384.7	1285.6	1180.5	1135.8	1157.2
62.5°	3253.8	1627.9	1168.9	1165.0	1200.0	1295.3	1270.0	1180.5	1093.0	1063.8	1050.2
65°	1894.3	1235.0	1087.2	1071.6	1100.8	1151.4	1168.9	1075.5	984.1	964.7	958.8
67.5°	1118.3	1021.1	982.2	956.9	947.2	978.3	991.9	937.4	846.0	818.8	842.1
70°	935.5	908.3	910.2	867.4	844.1	822.7	811.0	762.4	686.5	651.5	641.8
72.5°	807.1	795.5	787.7	748.8	727.4	678.8	628.2	579.6	523.2	494.0	495.9
75°	616.5	612.6	616.5	597.1	560.1	521.2	474.5	412.3	369.5	332.6	340.4
77.5°	367.6	379.3	385.1	377.3	361.7	326.7	297.6	256.7	215.9	186.7	182.8
80°	252.8	262.6	272.3	262.6	247.0	221.7	190.6	159.5	130.3	114.7	110.9
82.5°	192.5	202.3	208.1	198.4	178.9	151.7	130.3	108.9	85.6	70.0	66.1
85°	70.0	79.7	77.8	93.4	101.1	97.2	83.6	64.2	48.6	35.0	33.1
87.5°	19.4	17.5	19.4	19.4	19.4	17.5	15.6	15.6	15.6	9.7	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)